#22/bgg
3/5/02

1600

ENTERED

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 4 <110> APPLICANT: Busby, Robert
 5        Cali, Brian
 6        Hecht, Peter
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11        Norman, Thea
12        Royer, John
13        Salama, Sofie
14        Sherman, Amir
15        Silva, Jeff
16        Summers, Eric
18 <120> TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in
Fungi
20 <130> FILE REFERENCE: 109272.130
23 <140> CURRENT APPLICATION NUMBER: 09/487,558B
24 <141> CURRENT FILING DATE: 2000-01-19
26 <150> PRIOR APPLICATION NUMBER: US 60/487,558
27 <151> PRIOR FILING DATE: 1999-10-20
29 <160> NUMBER OF SEQ ID NOS: 446
31 <170> SOFTWARE: PatentIn version 3.0
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35 <211> LENGTH: 26
36 <212> TYPE: DNA
37 <213> ORGANISM: Aspergillus terreus
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57 <213> ORGANISM: Aspergillus nidulans
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65 <211> LENGTH: 25
66 <212> TYPE: DNA
67 <213> ORGANISM: Aspergillus nidulans
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RAW SEQUENCE LISTING   DATE: 02/20/2002
PATENT APPLICATION: US/09/487,558B   TIME: 16:17:18

Input Set : D:\MIC-001USptn.ST25.txt
Output Set: N:\CRF3\02202002\I487558B.raw

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   111 <212> TYPE: DNA
   112 <213> ORGANISM: Artificial Sequence
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Input Set : D:\MIC-001USptn.ST25.txt
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207 <213> ORGANISM: Aspergillus nidulans
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216 <212> TYPE: DNA
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237 <213> ORGANISM: Aspergillus nidulans
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PATENT APPLICATION: US/09/487,558B   TIME: 16:17:18

Input Set : D:\MIC-001USptn.ST25.txt
Output Set: N:\CRF3\02202002\I487558B.raw

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264 ctgatgctct tggatatgtc catcattgtc acggcgattc ctcacattac cgcccagttt  180
266 cattccctgg gcgatgtcgg atggtacgga agtgcgtatc ttctatcaag ctgtgccctc  240
268 caacccttgg caggcaaact atacactctg ttgaccctga aatacacctt cctcgctttt  300
270 ctcgggttgt ttgagattgg atcggttctt tgcggcactg ctcgttcgtc aaccatgttg  360
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274 attctgtcgg cggcagctcc aaagcaacag caaccgctct tgattgggat catgatgggc  480
276 ctaagccaaa tcgccattgt atgtggaccg ttgcttgggg gtgctttcac gcagcacgca  540
278 agttggcggt ggtgttttta catcaacctt cccattgggg cgtttgccac atttctcctt  600
280 ctcgtcatcc agatccccaa cagattgcca tccacgtcgg attcaaccac agacggcaca  660
282 aaccccaaga aagaggggc tcgggacgtc ttgacccaac tggatttcct tggattcgtg  720
284 ctcttcgccg gttttgcgat catgatatct cttgctttgg agtggggtgg gtctgattat  780
286 gcgtggaata gttccgtgat catcggcttg ttctgtgcgg cgggcgtgtc gctggtgctg  840
288 ttcggatgct gggaacggca tgtcggcggt gcagtggcca tgattcccat ttccgtggcc  900
290 agtcgtcgcc aagtctggtg ctcctgcttc ttcctcggct tttttccgg ggccctactt  960
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294 agtggagtgt atatgctgcc gggcattggt ggacagatcg tcatggcgat tgtgacgggt 1080
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302 attcaaaatg cgctgcctcc acaaacgagc cccatcggca tttcgctagc catgttcggc 1320
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306 gactctggtc tgcgccaata tgcgccaacc ctcaatgcac aggaggtaac agccgcaggg 1440
308 gccaccggct ccgccaagt ggtccccgct cctctcatct ctcgggtcct cttagcatac 1500
310 agtaaaggcg tggaccatgc attctacgtt gcggtcggtg cgtctggagc taccttcatc 1560
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314 agcgaatga                                                         1629
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319 <211> LENGTH: 542
320 <212> TYPE: PRT
321 <213> ORGANISM: Aspergillus terreus
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326 1               5                   10                  15
328 Gln Met Gln Ile Asn His Val Thr Gly Leu Arg Leu Gly Leu Val Val
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329             20              25              30
331 Val Ser Val Thr Leu Val Ala Phe Leu Met Leu Leu Asp Met Ser Ile
332         35              40              45
334 Ile Val Thr Ala Ile Pro His Ile Thr Ala Gln Phe His Ser Leu Gly
335         50              55              60
337 Asp Val Gly Trp Tyr Gly Ser Ala Tyr Leu Leu Ser Ser Cys Ala Leu
338 65              70              75              80
340 Gln Pro Leu Ala Gly Lys Leu Tyr Thr Leu Leu Thr Leu Lys Tyr Thr
341             85              90              95
343 Phe Leu Ala Phe Leu Gly Leu Phe Glu Ile Gly Ser Val Leu Cys Gly
344         100             105             110
346 Thr Ala Arg Ser Ser Thr Met Leu Ile Val Gly Arg Ala Val Ala Gly
347         115             120             125
349 Met Gly Gly Ser Gly Leu Thr Asn Gly Ala Ile Thr Ile Leu Ser Ala
350         130             135             140
352 Ala Ala Pro Lys Gln Gln Gln Pro Leu Leu Ile Gly Ile Met Met Gly
353 145             150             155             160
355 Leu Ser Gln Ile Ala Ile Val Cys Gly Pro Leu Leu Gly Gly Ala Phe
356             165             170             175
358 Thr Gln His Ala Ser Trp Arg Trp Cys Phe Tyr Ile Asn Leu Pro Ile
359             180             185             190
361 Gly Ala Phe Ala Thr Phe Leu Leu Leu Val Ile Gln Ile Pro Asn Arg
362         195             200             205
364 Leu Pro Ser Thr Ser Asp Ser Thr Thr Asp Gly Thr Asn Pro Lys Arg
365         210             215             220
367 Arg Gly Ala Arg Asp Val Leu Thr Gln Leu Asp Phe Leu Gly Phe Val
368 225             230             235             240
370 Leu Phe Ala Gly Phe Ala Ile Met Ile Ser Leu Ala Leu Glu Trp Gly
371             245             250             255
373 Gly Ser Asp Tyr Ala Trp Asn Ser Ser Val Ile Ile Gly Leu Phe Cys
374             260             265             270
376 Ala Ala Gly Val Ser Leu Val Leu Phe Gly Cys Trp Glu Arg His Val
377         275             280             285
379 Gly Gly Ala Val Ala Met Ile Pro Ile Ser Val Ala Ser Arg Arg Gln
380         290             295             300
382 Val Trp Cys Ser Cys Phe Phe Leu Gly Phe Phe Ser Gly Ala Leu Leu
383 305             310             315             320
385 Ile Phe Ser Tyr Tyr Leu Pro Ile Tyr Phe Gln Ala Val Lys Asn Val
386             325             330             335
388 Ser Pro Thr Met Ser Gly Val Tyr Met Leu Pro Gly Ile Gly Gly Gln
389             340             345             350
391 Ile Val Met Ala Ile Val Thr Gly Ala Ile Ile Gly Lys Thr Gly Tyr
392         355             360             365
394 Tyr Val Pro Trp Ala Leu Ala Ser Gly Ile Leu Val Ser Ile Ser Ala
395         370             375             380
397 Gly Leu Val Ser Thr Phe Gln Pro Glu Thr Ser Ile Ala Ala Trp Val
398 385             390             395             400
400 Met Tyr Gln Phe Leu Gly Gly Val Gly Arg Gly Cys Gly Met Gln Thr
401             405             410             415
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/487,558B

DATE: 02/20/2002
TIME: 16:17:19

Input Set : D:\MIC-001USptn.ST25.txt
Output Set: N:\CRF3\02202002\I487558B.raw

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L:128 M:283 W: Missing Blank Line separator, <220> field identifier
L:143 M:283 W: Missing Blank Line separator, <220> field identifier
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2/20/02